EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	13	(confidential$ and position and storage and location).clm.	US-PGPUB; USPAT	OR	ON	2007/04/19 13:52
S1	4	("6665582" "6853875" "6704618" "6622063").pn.	US-PGPUB; USPAT	OR	ON	2007/04/18 10:37
S2	71	data adj inflation	US-PGPUB; USPAT	OR	ON	2007/04/18 10:37
S3	0	data adj inflation.ti.	US-PGPUB; USPAT	OR	ON	2007/04/18 10:37
S4	1	data adj inflation.ab.	US-PGPUB; USPAT	OR	ON	2007/04/18 10:38
S5	9	data adj inflation.clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 11:11
S6	88	("713193".ccls. 713/194.ccls.) and (detroy destruct$)	US-PGPUB; USPAT	OR	ON	2007/04/18 11:12
S7	15	("713193".ccls. 713/194.ccls.) and (detroy destruct$).clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 11:12
S8	32	(713/193.ccls. 713/194.ccls.) and (detroy destruct$).clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 15:07
S9	7	(713/193.ccls. 713/194.ccls.) and 726/35.ccls.	US-PGPUB; USPAT	OR	ON	2007/04/18 11:16
S10	1004	data adj dispers$	US-PGPUB; USPAT	OR	ON	2007/04/18 11:31
S11	1	data adj dispers$.ti.	US-PGPUB; USPAT	OR	ON	2007/04/18 13:38
S12	10	prevent$ adj data adj recover$	US-PGPUB; USPAT	OR	ON	2007/04/18 13:42
S13	1077	data adj hiding	US-PGPUB; USPAT	OR	ON	2007/04/18 13:42
S14	47	data adj hiding.ti.	US-PGPUB; USPAT	OR	ON	2007/04/18 13:47
S15	688	interspers$ near data	US-PGPUB; USPAT	OR	ON	2007/04/18 13:47
S16	91	interspers$ near data.clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 13:48
S17	91	interspers$ near1 data.clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 13:48
S18	46	interspers$ adj data.clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 13:58
S19	158	380/258.ccls.	US-PGPUB; USPAT	OR	ON	2007/04/18 15:58
S20	1	380/258.ccls. and pars$.clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 13:59

EAST Search History

S21	104	380/258.ccls. and storage	US-PGPUB; USPAT	OR	ON	2007/04/18 14:40
S22	44	380/258.ccls. and storage.clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 14:40
S23	3	(713/193.ccls. 713/194.ccls.) and 380/258.ccls.	US-PGPUB; USPAT	OR	ON	2007/04/18 15:33
S24	107	gps.clm. and tamper$.clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 15:35
S25	22	gps.clm. and tamper$.clm. and authoriz$.clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 15:35
S26	13	("4325089").URPN.	USPAT	OR	ON	2007/04/18 15:52
S27	1	("4325089").URPN. and gps	USPAT	OR	ON	2007/04/18 15:53
S28	6	("4325089").URPN. and location	USPAT	OR	ON	2007/04/18 15:53
S29	4	380/258.ccls. and authoriz$ adj location.clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 16:00
S30	1	380/258.ccls. and 726/35.ccls.	US-PGPUB; USPAT	OR	ON	2007/04/18 16:03
S31	71	data adj inflation	US-PGPUB; USPAT	OR	ON	2007/04/18 16:04
S32	0	data adj inflation near mask$	US-PGPUB; USPAT	OR	ON	2007/04/18 16:04
S33	60	data adj mask$.ti.	US-PGPUB; USPAT	OR	ON	2007/04/18 16:04
S34	4	data adj mask$.ti. and gps	US-PGPUB; USPAT	OR	ON	2007/04/18 16:05
S35	11	data adj mask$.ti. and location. clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 16:08
S36	739	(369/53.1 369/53.17).ccls.	US-PGPUB; USPAT	OR	ON	2007/04/18 16:09
S37	2	(369/53.1 369/53.17).ccls. and gps	US-PGPUB; USPAT	OR	ON	2007/04/18 16:09
S38	2	(369/53.1 369/53.17).ccls. and mask$.clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 16:11
S39	13113	(369/53.1 369/53.17).ccls. pars$. clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 16:11
S40	0	(369/53.1 369/53.17).ccls. and pars$.clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 16:11
S41	176	(369/53.1 369/53.17).ccls. and storage.clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 16:11
S42	19	(369/53.1 369/53.17).ccls. and storage.clm. and transfer$.clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 16:23
S43	5274	(memory buffer) adj (overload overflow)	US-PGPUB; USPAT	OR	ON	2007/04/18 16:24

EAST Search History

S44	339	(memory buffer) adj (overload overflow).clm.	US-PGPUB; USPAT	OR	ON	2007/04/18 16:24
S45	4	(memory buffer) adj (overload overflow).clm. and theft	US-PGPUB; USPAT	OR	ON	2007/04/18 16:28
S46	1	"20040264027"	US-PGPUB; USPAT	OR	ON	2007/04/18 16:28
S47	19	"5790074"	US-PGPUB; USPAT	OR	ON	2007/04/18 16:34
S48	1	"5790074".pn.	US-PGPUB; USPAT	OR	ON	2007/04/18 16:34

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☐ **1. Enhancing the security of Internet applications using location: a new mo**
resistant GSM location
Wullems, C.; Looi, M.; Clark, A.;
Computers and Communication, 2003. (ISCC 2003). Proceedings. Eighth IEEE
Symposium on
2003 Page(s):1251 - 1258 vol.2
Digital Object Identifier 10.1109/ISCC.2003.1214286

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☐ **2. A location enabled wireless security system**
Malaney, R.A.;
Global Telecommunications Conference, 2004. GLOBECOM '04. IEEE
Volume 4, 29 Nov.-3 Dec. 2004 Page(s):2196 - 2200 Vol.4
Digital Object Identifier 10.1109/GLOCOM.2004.1378399

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☐ **3. Energy efficient watermarking on mobile devices using proxy-based parti**
Kejariwal, A.; Gupta, S.; Nicolau, A.; Dutt, N.D.; Gupta, R.;
Very Large Scale Integration (VLSI) Systems, IEEE Transactions on
Volume 14, Issue 6, June 2006 Page(s):625 - 636
Digital Object Identifier 10.1109/TVLSI.2006.878218

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☐ **4. Sensors and wireless communication for medical care**
Bhargava, A.; Zoltowski, M.;
Database and Expert Systems Applications, 2003. Proceedings. 14th Internatic
1-5 Sept. 2003 Page(s):956 - 960
Digital Object Identifier 10.1109/DEXA.2003.1232145

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☐ 1. **The cost of convenience: a faustian deal [computer security]**
Caloyannides, M.A.;
Security & Privacy Magazine, IEEE
Volume 2, Issue 2, Mar-Apr 2004 Page(s):84 - 87
Digital Object Identifier 10.1109/MSECP.2004.1281255

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☐ 2. **The secure networked truck: protecting America's transportation infrastr**
Harvey, J.M.;
Vehicular Technology Conference, 2004. VTC2004-Fall. 2004 IEEE 60th
Volume 7, 26-29 Sept. 2004 Page(s):5281 - 5284 Vol. 7
Digital Object Identifier 10.1109/VETECF.2004.1405109

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☐ 3. **A vector-based gyro-free inertial navigation system by integrating existin network in a passenger vehicle**
Ying Kun Peng; Golnaraghi, M.F.;
Position Location and Navigation Symposium, 2004. PLANS 2004
26-29 April 2004 Page(s):234 - 242

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☐ 4. **Combined remote key control and immobilization system for vehicle secu**
Davis, B.; DeLong, R.;
Power Electronics in Transportation, 1996. IEEE
24-25 Oct. 1996 Page(s):125 - 132
Digital Object Identifier 10.1109/PET.1996.565920

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☐ 5. **Stealth attacks in vehicular technologies**
Jakobsson, M.; XiaoFeng Wang; Wetzel, S.;
Vehicular Technology Conference, 2004. VTC2004-Fall. 2004 IEEE 60th
Volume 2, 26-29 Sept. 2004 Page(s):1218 - 1222 Vol. 2
Digital Object Identifier 10.1109/VETECF.2004.1400216

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☐   6. **Design of locomotive location indicator communication system**
Oranye, N.; Masupe, S.; Chuma, J.M.; Sebusang, S.E.M.;
AFRICON, 2004. 7th AFRICON Conference in Africa
Volume 2, 2004 Page(s):1269 - 1273 Vol.2
Digital Object Identifier 10.1109/AFRICON.2004.1406896

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☐   7. **Integrating global positioning systems with satellite remote sensing: avo pitfalls**
Leavitt, B.C.; Payton, S.L.;
Geoscience and Remote Sensing Symposium, 1996. IGARSS '96. 'Remote Se Sustainable Future.', International
Volume 4, 27-31 May 1996 Page(s):2273 - 2275 vol.4
Digital Object Identifier 10.1109/IGARSS.1996.516959

AbstractPlus | Full Text: PDF(312 KB)   IEEE CNF
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☐   8. **Sensor fusion for smart containers**
Craddock, R.J.; Stansfield, E.V.;
Signal Processing Solutions for Homeland Security, 2005. The IEE Seminar or 2005/11108)
11 Oct. 2005 Page(s):12 pp.

AbstractPlus | Full Text: PDF(399 KB)   IET CNF

☐   9. **Reliable Authentication Method by Using Cellular Phones in WBT**
Takamizawa, H.; Kaijiri, K.;
Networking, International Conference on Systems and International Conferenc Communications and Learning Technologies, 2006. ICN/ICONS/MCL 2006. In Conference on
23-29 April 2006 Page(s):200 - 200
Digital Object Identifier 10.1109/ICNICONSMCL.2006.184

AbstractPlus | Full Text: PDF(200 KB)   IEEE CNF
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☐   10. **Public attitudes towards a national identity "smart card:" privacy and sec**
Hiltz, S.R.; Hyo-Joo Han; Brillér, V.;
System Sciences, 2003. Proceedings of the 36th Annual Hawaii International (
6-9 Jan 2003 Page(s):8 pp.
Digital Object Identifier 10.1109/HICSS.2003.1174312

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1   Tablet: personal computer of the year 2000   ▦
B. W. Mel, S. M. Omohundro, A. D. Robison, S. S. Skiena, K. H. Thearling
June 1988 **Communications of the ACM**, Volume 31 Issue 6
Publisher: ACM Press

Full text available: 🗎 pdf(1.67 MB)   Additional Information: full citation, abstract, references, citings, index terms

A design represents a compromise between conflicting goals, and the design of the personal computer of the year 2000 is no exception. We seek something that will fit comfortably into people's lives while dramatically changing them. This may appear to be a contradiction that cannot be reconciled. But if the technology does not fit easily into the habits and lifestyles of its human users, it will be discarded by those it was meant to help. And if this new tool does not change the life of its ...

2   Sufficient Conditions for the Success of GPS   ▦
George W. Ernst
October 1969 **Journal of the ACM (JACM)**, Volume 16 Issue 4
Publisher: ACM Press

Full text available: 🗎 pdf(1.40 MB)   Additional Information: full citation, abstract, references, citings, index terms

A formal model of a problem is developed and its relationship to the General Problem Solver (GPS) is discussed. Before GPS can work on a problem it must be given differences, a difference-ordering, and a table of connections, in addition to the specifications of a problem. Formal definitions of this additional information are given, and sufficient conditions for the success of GPS are derived. These conditions point out the utility of differences and a difference-ordering that yield a &ldqu ...

3   Risks to the public: Risks to the public in computers and related systems   ▦
Peter G. Neumann
March 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 2
Publisher: ACM Press
Full text available: 🗎 pdf(221.43 KB)   Additional Information: full citation, citings

4   Partitioning rules for orchestrating mobile information systems   ▭
Andrea Maurino, Stefano Modafferi

September 2005 **Personal and Ubiquitous Computing**, Volume 9 Issue 5
Publisher: Springer-Verlag
Full text available: pdf(387.60 KB)   Additional Information: <u>full citation, abstract</u>

> New mobile technologies such as Bluetooth or Wi-Fi suffer from many limitations and
> problems, especially when they are used in combination, whereas they are quite stable in
> small networks. The lack of specialised mobile middleware requires new methods in the
> design and execution of mobile information systems. We propose a two-phase approach
> to manage a mobile business process by partitioning a given workflow into several
> workflows, with each one governed by a controller. In the first phase, we i ...
>
> **Keywords:** BPEL4WS, Distributed workflow, Mobile information systems, Partitioning
> rules, Workflow partitioning

5 <u>Collaborative backup for dependable mobile applications</u>

Marc-Olivier Killijian, David Powell, Michel Banâtre, Paul Couderc, Yves Roudier
October 2004 **Proceedings of the 2nd workshop on Middleware for pervasive and ad-
hoc computing MPAC '04**
Publisher: ACM Press

Full text available: pdf(265.85 KB)   Additional Information: <u>full citation, abstract, references, citings, index terms</u>

> We describe the work we are conducting on new middleware services for dependable and
> secure mobile systems. This work is based on approaches à la peer-to-peer in order to
> circumvent the problems introduced by the lack of infrastructure in self-organizing
> networks of mobile nodes, such as MANETs. The mechanisms we propose are based on
> collaboration between peer mobile devices to provide middleware services such as trust
> management and critical data storage. This short paper gives a brie ...
>
> **Keywords:** collaboration, data back-up, mobile applications

6 <u>Columns: Risks to the public in computers and related systems</u>

Peter G. Neumann
July 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 4
Publisher: ACM Press
Full text available: pdf(1.17 MB)   Additional Information: <u>full citation</u>

7 <u>Risks to the public: Risks to the public</u>

Peter G. Neumann
September 2006 **ACM SIGSOFT Software Engineering Notes**, Volume 31 Issue 5
Publisher: ACM Press
Full text available: pdf(281.86 KB)   Additional Information: <u>full citation, abstract, index terms</u>

> Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM
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> other circumstances relating to computer systems. To economize on space, we include
> pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

8 <u>Risks to the public in computers and related systems</u>

Peter G. Neumann
May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Publisher: ACM Press
Full text available: 📄 pdf(789.30 KB) Additional Information: <u>full citation</u>, <u>index terms</u>

9 <u>Risks to the public: Risks to the public</u>　　　　　　　　　　　🔲
Peter G. Neumann
May 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(177.87 KB)　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

> Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM
> Committee on Computers and Public Policy), plus personal contributions by others, as
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> other circumstances relating to computer systems. To economize on space, we include
> pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

10 <u>Privacy 1: Putting people in their place: an anonymous and privacy-sensitive</u>　　🔲
<u>approach to collecting sensed data in location-based applications</u>
Karen P. Tang, Pedram Keyani, James Fogarty, Jason I. Hong
April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing
systems CHI '06**
Publisher: ACM Press
Full text available: 📄 pdf(686.75 KB)　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> The emergence of location-based computing promises new and compelling applications,
> but raises very real privacy risks. Existing approaches to privacy generally treat people as
> the entity of interest, often using a fidelity tradeoff to manage the costs and benefits of
> revealing a person's location. However, these approaches cannot be applied in some
> applications, as a reduction in precision can render location information useless. This is
> true of a category of applications that use location data ...
>
> **Keywords:** anonymity, hitchhiking, location-based computing, privacy

11 <u>Storytelling: Believable environments: generating interactive storytelling in vast</u>　🔲
<u>location-based pervasive games</u>
Anton Gustafsson, John Bichard, Liselott Brunnberg, Oskar Juhlin, Marco Combetto
June 2006 **Proceedings of the 2006 ACM SIGCHI international conference on
Advances in computer entertainment technology ACE '06**
Publisher: ACM Press
Full text available: 📄 pdf(239.21 KB)　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> Generating content into vast areas is a relevant challenge in the field of location-based
> pervasive games. In this paper, we present a game prototype that enables children
> travelling in the back seat of a car to enjoy a narrated experience where gameplay
> combines with the experience of traveling through the road network. The prototype is
> designed to provide what we refer to as a believable environment. We propose four
> design characteristics to persuasively include a journey within a pervasive ga ...
>
> **Keywords:** audio centric, backseat playground, believable environment, interactive
> storytelling, location based, pervasive game, prototype performance test

12

Indexing the positions of continuously moving objects
Simonas Šaltenis, Christian S. Jensen, Scott T. Leutenegger, Mario A. Lopez
May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international
          conference on Management of data SIGMOD '00**, Volume 29 Issue 2
Publisher: ACM Press

Full text available: pdf(182.13 KB)   Additional Information: full citation, abstract, references, citings, index terms

The coming years will witness dramatic advances in wireless communications as well as
positioning technologies. As a result, tracking the changing positions of objects capable of
continuous movement is becoming increasingly feasible and necessary. The present paper
proposes a novel, R*-tree based indexing technique that supports the efficient querying of
the current and projected future positions of such moving objects. The technique is
capable of indexing objects moving in one-, two-, and th ...

13 Columns: Risks to the public in computers and related systems
Peter G. Neumann
November 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 6
Publisher: ACM Press
Full text available: pdf(1.25 MB)   Additional Information: full citation, references

14 Wireless networking security: 802.11b access point mapping
Simon Byers, Dave Kormann
May 2003 **Communications of the ACM**, Volume 46 Issue 5
Publisher: ACM Press
Full text available: pdf(151.86 KB)   Additional Information: full citation, abstract, references, citings, index
              html(30.48 KB)   terms

Considering some of the practical issues encountered when finding and mapping wireless
network access points.

15 Protecting file systems with transient authentication
Mark D. Corner, Brian D. Noble
January 2005 **Wireless Networks**, Volume 11 Issue 1-2
Publisher: Kluwer Academic Publishers
Full text available: pdf(422.63 KB)   Additional Information: full citation, abstract, references, index terms

Laptops are vulnerable to theft, greatly increasing the likelihood of exposing sensitive
files. Unfortunately, storing data in a cryptographic file system does not fully address this
problem. Such systems ask the user to imbue them with long-term authority for
decryption, but that authority can be used by anyone who physically possesses the
machine. Forcing the user to frequently reestablish his identity is intrusive, encouraging
him to disable encryption.This tension between usability and secur ...

16 Risks to the public: Risks to the public
Peter G. Neumann
March 2006 **ACM SIGSOFT Software Engineering Notes**, Volume 31 Issue 2
Publisher: ACM Press
Full text available: pdf(144.71 KB)   Additional Information: full citation, abstract, index terms

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM
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17 Columns: Risks to the public in computers and related systems

Peter G. Neumann
March 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(165.39 KB)   Additional Information: full citation

18 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(2.54 MB)   Additional Information: full citation

19 The wireless Net

Dennis Fowler
August 1997 **netWorker**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(566.06 KB)   Additional Information: full citation, references, index terms, review

20 Mobile commerce opportunities and challenges: Evolution of mobile location-based services

Bharat Rao, Louis Minakakis
December 2003 **Communications of the ACM**, Volume 46 Issue 12

Publisher: ACM Press

Full text available: pdf(110.27 KB)   Additional Information: full citation, abstract, references, citings, index
html(25.25 KB)   terms

Utilizing user location as a key determinant of information requirement needs.

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1 Visualizing real-time GPS data with Internet's VRML Worlds
Ismo Rakkolainen, Simo Pulkkinen, Arttu Heinonen
November 1998 **Proceedings of the 6th ACM international symposium on Advances in geographic information systems GIS '98**
Publisher: ACM Press
Full text available: 📄 pdf(477.47 KB)   Additional Information: full citation, references, index terms

    Keywords: GIS, GPS, Java, virtual reality

2 How to prove where you are: tracking the location of customer equipment
Eran Gabber, Avishai Wool
November 1998 **Proceedings of the 5th ACM conference on Computer and communications security CCS '98**
Publisher: ACM Press
Full text available: 📄 pdf(1.01 MB)   Additional Information: full citation, references, citings, index terms

3 Demos: Personal microdevices for wide-area location via mobile gateways
F. J. Gil-Castiñeira, F. J. González-Castaño, J. M. Pousada-Carballo
September 2005 **Proceedings of the 7th international conference on Human computer interaction with mobile devices & services MobileHCI '05**
Publisher: ACM Press
Full text available: 📄 pdf(205.47 KB)   Additional Information: full citation, abstract, references, index terms

    Diverse social applications rely on remote location of personal devices: house arrest tracker systems, remote monitoring of alcoholic persons, child locator devices and remote protection of victims of domestic abuse are some examples. However, existing personal location devices either depend on a fixed station (a domestic gateway) -thus limiting user mobility-, or include a full cell phone -thus increasing weight, cost and power consumption-. In this demonstration, we present a new system we hav ...

4 A low-cost robust localization scheme for WLAN
Santosh Pandey, Farooq Anjum, Byungsuk Kim, Prathima Agrawal
August 2006 **Proceedings of the 2nd annual international workshop on Wireless**

internet WICON '06
Publisher: ACM Press
Full text available: pdf(889.91 KB)   Additional Information: full citation, abstract, references, index terms

Localization in WLAN networks has been an active area of research recently. However, most of the previous schemes in this area do not consider the presence of any malicious user within the network. The growing interest in location based services would necessitate the development of a low-cost localization scheme which is robust against the attacks from these malicious users. In this paper, we propose such a low-cost secure localization scheme. The proposed scheme is based on the current acces ...

Keywords: WLAN, localization, security, testbed implementation

5 Contextual Displays: The augurscope: a mixed reality interface for outdoors
Holger Schnädelbach, Boriana Koleva, Martin Flintham, Mike Fraser, Shahram Izadi, Paul Chandler, Malcolm Foster, Steve Benford, Chris Greenhalgh, Tom Rodden
April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves CHI '02**
Publisher: ACM Press

Full text available: pdf(1.38 MB)   Additional Information: full citation, abstract, references, citings, index terms

The augurscope is a portable mixed reality interface for outdoors. A tripod-mounted display is wheeled to different locations and rotated and tilted to view a virtual environment that is aligned with the physical background. Video from an onboard camera is embedded into this virtual environment. Our design encompasses physical form, interaction and the combination of a GPS receiver, electronic compass, accelerometer and rotary encoder for tracking. An initial application involves the public expl ...

Keywords: augmented reality, mixed reality, mobile and wireless applications, outdoors applications, virtual reality

6 User needs for location-aware mobile services
Eija Kaasinen
May 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 1
Publisher: Springer-Verlag
Full text available: pdf(334.82 KB)   Additional Information: full citation, abstract, citings, index terms

Mobile contexts of use vary a lot, and may even be continuously changing during use. The context is much more than location, but its other elements are still difficult to identify or measure. Location information is becoming an integral part of different mobile devices. Current mobile services can be enhanced with location-aware features, thus providing the user with a smooth transition towards context-aware services. Potential application fields can be found in areas such as travel inform ...

Keywords: Location-aware services, Mobile services, Usability, User evaluation, User needs

7 Device independent text input: a rationale and an example
Poika Isokoski, Roope Raisamo
May 2000 **Proceedings of the working conference on Advanced visual interfaces AVI '00**
Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(1.18 MB)   terms

Individual characters and text are the main inputs in many computing devices. Currently there is a growing trend in developing small portable devices like mobile phones, personal digital assistants, GPS-navigators, and two-way pagers. Unfortunately these portable computing devices have different user interfaces and therefore the task of text input takes many forms. The user, who in the future is likely to have several of these devices, has to learn several text input methods. We argue that ...

Keywords: MDITIM, device independence, minimalism, portable devices, text input, unistrokes

8 Network protocols: A framework of secure location service for position-based ad hoc routing
Joo-Han Song, Vincent W.S. Wong, Victor C.M. Leung
October 2004 **Proceedings of the 1st ACM international workshop on Performance evaluation of wireless ad hoc, sensor, and ubiquitous networks PE-WASUN '04**
Publisher: ACM Press
Full text available: pdf(211.73 KB)   Additional Information: full citation, abstract, references, index terms

In large and dense mobile ad hoc networks, position-based routing protocols can offer significant performance improvement over topology-based routing protocols by using location information to make forwarding decisions. However, so far security issues in position-based routing protocols has not been widely considered. In this paper, we identify several security problems of position-based routing protocols in mobile ad hoc networks. To avoid these problems, we propose the Secure Grid Location Ser ...

Keywords: ad hoc wireless networks, grid location service, position-based routing protocol, security

9 Training a wireless sensor network
A. Wadaa, S. Olariu, L. Wilson, M. Eltoweissy, K. Jones
February 2005 **Mobile Networks and Applications**, Volume 10 Issue 1-2
Publisher: Kluwer Academic Publishers
Full text available: pdf(487.16 KB)   Additional Information: full citation, abstract, references, citings, index terms

The networks considered in this paper consist of tiny energy-constrained commodity sensors massively deployed, along with one or more sink nodes providing interface to the outside world. Our contribution is to propose a scalable energy-efficient training protocol for nodes that are initially anonymous, asynchronous and unaware of their location. Our training protocol imposes a flexible and intuitive coordinate system onto the deployment area and partitions the anonymous nodes into clusters where ...

Keywords: clustering, dynamic coordinate system, energy-efficient protocols, security, self-organization, training, wireless sensor networks

10 Short papers: Developing 3D information systems for mobile users: some usability issues
Teija Vainio, Outi Kotala
October 2002 **Proceedings of the second Nordic conference on Human-computer interaction NordiCHI '02**
Publisher: ACM Press

Full text available: pdf(380.61 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Location-based services, navigation and way finding in three-dimensional worlds are some challenges of current research in mobile computing and information systems. This paper introduces a prototype of future mobile city information systems. In 3D City Info research project, we integrated in one prototype system a three-dimensional city model, a map and a database, which includes information from the same area. In addition, we have built a fully working mobile laptop version of the 3D City Info ...

Keywords: 3D graphics, GPS, mobile multimedia, navigation, usability, user interface for mobile devices

11 <u>The evolution of perspective view in WalkMap</u>
Riku Suomela, Kimmo Roimela, Juha Lehikoinen
October 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 5
Publisher: Springer-Verlag
Full text available: pdf(485.11 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

A wearable computer is a potential platform for map applications: it is mobile in nature, and is often equipped with a head-worn display capable of displaying maps of the surrounding area in graphical form. In this paper, we present a map application, called WalkMap, developed for wearable computers. We concentrate on the visual presentation of the map, and propose a visualisation method that is based on the perspective distortion of a regular two-dimensional bird's-eye view map. We also describ ...

Keywords: Map, Navigation, Perspective, Three-dimensional, User study, Wearable computing

12 <u>Editorial zone: The privacy and safety impact of technology choices for command,</u>
<u>communications and control of the public highway</u>
Jon Crowcroft
January 2006 **ACM SIGCOMM Computer Communication Review**, Volume 36 Issue 1
Publisher: ACM Press
Full text available: pdf(87.60 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Monitoring, and command,communications and control of private vehicles on the public highway is now high on the political agenda. This is both because it is becoming feasible, and because it may be desirable. From the economic perspective, more efficient se of road resources may be achievable. From a safety perspective, it would clearly be good to reduce road injury and death statistics below the current "9/11"'s-worth per year in the UK (and other similar sized European countries).Various proto ...

Keywords: policy, privacy, safety, transport

13 <u>Nature talk: a proposed audible database system for environmental learning</u>
Yutaro Ohashi, Makoto Arisawa
June 2006 **Proceeding of the 2006 conference on Interaction design and children IDC '06**
Publisher: ACM Press
Full text available: pdf(225.65 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We developed a mobile learning application that permits users to explore and learn a natural environment. By using PDA, learners seek various kinds of sound in surroundings,

and record them. Sounds are stored in PDA with position information obtained from GPS receiver, which is embedded in PDA. Sounds are layered on an aerial photo, based on the position information. As the network technology spread to school education, visual information (such as text, photo, etc) will be large in quantity. Thi ...

Keywords: CSCL, environmental learning, exploration, free play, mobile, ubiquitous

14 Performance ad hoc and IEEE 802 networks: Experimental comparisons between SAODV and AODV routing protocols
Yuxia Lin, A. Hamed Mohsenian Rad, Vincent W. S. Wong, Joo-Han Song
October 2005 **Proceedings of the 1st ACM workshop on Wireless multimedia networking and performance modeling WMuNeP '05**
Publisher: ACM Press
Full text available: pdf(474.08 KB)   Additional Information: full citation, abstract, references, index terms

There have been various secure routing protocols proposed for mobile ad hoc networks. Most of these protocols are analyzed by two standard techniques: simulation and security analysis. There has been a lack of work related to the performance of secure routing protocols in real network testbed. In this paper, we present quantitative results for the performance comparisons between AODV and SAODV routing protocols by using a small-scale experimental testbed, which consists of 10 laptops within a 25 ...

Keywords: routing, security, testbed, wireless ad hoc networks

15 Data protection and data sharing in telematics
Sastry Duri, Jeffrey Elliott, Marco Gruteser, Xuan Liu, Paul Moskowitz, Ronald Perez, Moninder Singh, Jung-Mu Tang
December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: pdf(303.67 KB)   Additional Information: full citation, abstract, references, index terms

Automotive telematics may be defined as the information-intensive applications enabled for vehicles by a combination of telecommunications and computing technology. Telematics by its nature requires the capture, storage, and exchange of sensor data to obtain remote services. Such data likely include personal, sensitive information, which require proper handling to protect the driver's privacy. Some existing approaches focus on protecting privacy through anonymous interactions or by stopping i ...

Keywords: automotive telematics, data protection architecture, privacy policies

16 Video demonstrations and visions: MMM2: mobile media metadata for media sharing
Marc Davis, John Canny, Nancy Van House, Nathan Good, Simon King, Rahul Nair, Carrie Burgener, Bruce Rinehart, Rachel Strickland, Guy Campbell, Scott Fisher, Nick Reid
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press
Full text available: pdf(237.81 KB)   Additional Information: full citation, abstract, references, citings, index terms

As cameraphones become the dominant platform for consumer multimedia capture worldwide, multimedia researchers are faced both with the challenge of how to help users manage the billions of photographs they are collectively producing and the opportunity to leverage cameraphones' ability to automatically capture temporal, spatial, and social contextual metadata to help manage consumer multimedia content. In our Mobile Media

Metadata 2 (MMM2) prototype, we apply collaborative filtering techniques t ...

Keywords: GPS, bluetooth, collaborative filtering, contextual metadata, digital image management, location-based services, machine learning, pervasive computing, social networks, social software, ubiquitous computing, wireless multimedia

17 Location-based techniques: Location dependent key management using random key-predistribution in sensor networks
Farooq Anjum
September 2006 **Proceedings of the 5th ACM workshop on Wireless security WiSe '06**
Publisher: ACM Press
Full text available: pdf(191.10 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we propose a location aware approach for key management in sensor networks. As a result, this approach not only provides for better connectivity of sensor nodes in the network but also provides for containment of node compromise. This approach which we call as location dependent key (LDK) management does not require any knowledge about the deployment of sensor nodes. LDK starts off with loading a random set of keys on each sensor node prior to deployment. The actual keys are then d ...

Keywords: key management, location dependent, sensor networks

18 Collaborative Filtering: Collaborative filtering with privacy via factor analysis
John Canny
August 2002 **Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '02**
Publisher: ACM Press
Full text available: pdf(168.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

Collaborative filtering (CF) is valuable in e-commerce, and for direct recommendations for music, movies, news etc. But today's systems have several disadvantages, including privacy risks. As we move toward ubiquitous computing, there is a great potential for individuals to share all kinds of information about places and things to do, see and buy, but the privacy risks are severe. In this paper we describe a new method for collaborative filtering which protects the privacy of individual data. Th ...

Keywords: CSCW, collaborative filtering, missing data, personalization, privacy, recommender systems, sparse, surveys

19 Smart Clothing Prototype for the Arctic Environment
J. Rantanen, J. Impiö, T. Karinsalo, M. Malmivaara, A. Reho, M. Tasanen, J. Vanhala
January 2002 **Personal and Ubiquitous Computing,** Volume 6 Issue 1
Publisher: Springer-Verlag
Full text available: pdf(270.59 KB)   Additional Information: full citation, abstract, index terms

Continuous miniaturisation of electronic components has made it possible to create smaller and smaller electrical devices which can be worn and carried all the time. Together with developing fibre and textile technologies, this has enabled the creation of truly usable smart clothes that resemble clothes more than wearable computing equipment. These intelligent clothes are worn like ordinary clothing and provide help in various situations according to the application area. This paper describes th ...

20 Poster 3: content track: Towards context-aware face recognition

Marc Davis, Michael Smith, John Canny, Nathan Good, Simon King, Rajkumar Janakiraman
November 2005 **Proceedings of the 13th annual ACM international conference on
Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: pdf(240.69 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we focus on the use of context-aware, collaborative filtering, machine-learning techniques that leverage automatically sensed and inferred contextual metadata together with computer vision analysis of image content to make accurate predictions about the human subjects depicted in cameraphone photos. We apply Sparse-Factor Analysis (SFA) to both the contextual metadata gathered in the MMM2 system and the results of PCA (Principal Components Analysis) of the photo content to achieve ...

Keywords: PCA, SFA, cameraphone, context-aware, face recognition

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